Performance Data Sheet

HGA5471BXC

General Information

Model	HGA5471BXC	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2340	2160					
	Watts	325	355					
	Amps	1.73	1.77					
	Lb/h	24.3	23.1					
-10	Btu/h	2580	2380	2220				
	Watts	332	364	391				
	Amps	1.74	1.80	1.85				
	Lb/h	27.9	26.6	25.7				
-5	Btu/h	2870	2640	2460	2310			
	Watts	339	372	401	428			
	Amps	1.74	1.83	1.90	1.96			
	Lb/h	31.8	30.5	29.6	28.7			
0	Btu/h	3200	2950	2750	2560	2390		
	Watts	344	379	410	439	468		
	Amps	1.75	1.85	1.94	2.03	2.11		
	Lb/h	36.1	34.8	33.7	32.9	31.9		
5	Btu/h	3580	3310	3070	2860	2660		
	Watts	348	385	418	449	480		
	Amps	1.75	1.88	1.99	2.09	2.20		
	Lb/h	40.7	39.4	38.3	37.4	36.3		
10	Btu/h	4010	3710	3440	3190	2960	2720	2450
	Watts	351	390	425	459	492	528	569
	Amps	1.75	1.89	2.02	2.15	2.27	2.41	2.56
	Lb/h	45.8	44.4	43.2	42.2	41.1	39.8	38.0
15	Btu/h	4490	4150	3850	3570	3300	3020	2720
	Watts	352	394	431	467	503	542	585
	Amps	1.75	1.91	2.05	2.20	2.34	2.50	2.67
	Lb/h	51.3	49.8	48.6	47.4	46.2	44.8	42.9
20	Btu/h	5020	4650	4310	3990	3690	3370	3030
	Watts	351	395	435	474	512	554	600
	Amps	1.73	1.91	2.08	2.24	2.40	2.58	2.77
	Lb/h	57.2	55.7	54.3	53.1	51.8	50.2	48.1

25	Btu/h	5600	5190	4810	4460	4110	3750	3370
	Watts	349	395	438	479	520	564	613
	Amps	1.72	1.91	2.09	2.27	2.46	2.65	2.86
	Lb/h	63.6	62.0	60.5	59.1	57.7	56.0	53.8
30	Btu/h	6230	5780	5360	4970	4580	4180	3760
	Watts	344	393	439	483	527	574	626
	Amps	1.69	1.90	2.10	2.30	2.50	2.71	2.94
	Lb/h	70.5	68.7	67.2	65.7	64.0	62.2	59.8
35	Btu/h	6910	6420	5960	5520	5090	4650	4180
	Watts	337	389	438	484	532	582	637
	Amps	1.66	1.88	2.10	2.31	2.52	2.75	3.00
	Lb/h	77.9	76.0	74.3	72.6	70.9	68.8	66.3
40	Btu/h	7640	7100	6600	6120	5640	5150	4640
	Watts	328	383	434	484	534	588	646
	Amps	1.62	1.85	2.08	2.31	2.54	2.79	3.05
	Lb/h	85.8	83.7	81.9	80.1	78.1	75.9	73.2
45	Btu/h	8430	7840	7300	6770	6240	5700	5140
	Watts	315	374	428	481	535	592	653
	Amps	1.56	1.81	2.05	2.29	2.54	2.80	3.09
	Lb/h	94.2	92.0	90.0	88.0	85.9	83.5	80.6
50	Btu/h	9260	8640	8040	7460	6890	6300	5680
	Watts	300	362	420	476	533	593	659
	Amps	1.50	1.76	2.01	2.26	2.53	2.80	3.10
	Lb/h	103	101	98.6	96.5	94.2	91.6	88.5
55	Btu/h	10200	9480	8830	8200	7580	6930	6260
	Watts	282	347	408	468	529	593	662
	Amps	1.42	1.69	1.95	2.22	2.50	2.79	3.10
	Lb/h	113	110	108	105	103	100	96.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.539753E+03	-3.487473E+02	-5.316619E-01	7.782510E+01
C2	1.092490E+02	-1.827567E+00	-2.499640E-02	8.984762E-01
C3	-1.223432E+02	1.588318E+01	5.337541E-02	-1.076436E+00
C4	1.282357E+00	-4.629306E-02	8.075246E-05	9.680230E-03
C5	-4.013011E-01	3.075405E-02	2.620544E-04	7.419693E-04
C6	9.007436E-01	-1.195776E-01	-4.105962E-04	9.221041E-03
C7	9.442418E-04	-2.502076E-04	-1.391641E-06	2.528130E-05
C8	-4.227382E-03	2.779439E-04	-1.619688E-06	-2.476629E-05
C9	-8.556249E-04	4.963196E-05	7.654179E-07	-9.806711E-06
C10	-2.567802E-03	3.660976E-04	1.244434E-06	-2.864377E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature